AMENDMENT OF SOLICITATION/MODIFICATION OF CONTR		RACT	1. CONTRACT ID COI	E 1	PAGE OF PAGES 1 12
2. AMENDMENT/MODIFICATION NO. 454	3. EFFECTIVE DATE (M/D/Y) See Block 16C	4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)			
6. ISSUED BY CODE		7. ADMINISTER	RED BY (If other than Item	6) CODE	
U.S. Department of Energy Office of River Protection P. O. Box 450, MS H6-60 Richland, WA 99352					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, co.	ounty, State and ZIP code)		9A. AMENDI	MENT OF SOL	ICITATION NO.
Bechtel National, Inc. 2435 Stevens Center Place Richland, WA 99354			10A. MODIFI DE-A	SEE ITEM 11) CATION OF C C27-01RV (SEE ITEM 13)	
20615	150000	20.60		ber 11, 20	90
CODE 396A5	FACILITY CODE 153392		COLICITATIONS		
The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning				ENT TO BE RECEIVED AT THE irtue of this amendment you and amendment and is received	
	equired to sign this document				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) See following page(s)					
Except as provided herein, all terms and conditions of the docume	ent referenced in Item 9A or 10A, as	heretofore changed	l, remains unchanged and	in full force an	d effect.
15A. NAME AND TITLE OF SIGNER (Type or print)		-	D TITLE OF CONTRAC		
Valerie McCain			e A. Mair		
Project Director 15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED		TATES OF AMERICA		16C. DATE SIGNED
(Signature of person authorized to sign)	_ 7May 19	BY KATIE	Digitally sign	.08 09:25:42	10C. DATE SIGNED

NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

Purpose of Modification:

The purpose of this modification is to:

- Make a correction from Contract Modification 453, which definitized REA 2018-011. An NTE was provided in Contract Modification 432, which was not taken into account when definitizing the REA in Contract Modification 453. Also, the line item allocation was incorrect for CLIN 2.1 and CLIN 2.2/2.3.
- Definitize REA 2015-005, Rev. 1, DOE O 414.1D, Change 1, Quality Assurance Program.
- Revise Section B, Supplies or Services and Prices/Costs, to reflect the corrected amount from REA 2018-011 and reflect the negotiated amount of REA 2015-005, Rev. 1.
- Revise Section J, List of Attachments, Attachment J, to recognize this modification as definitizing the Change Order from Modification No. 349.

Description of Modification:

1. Make a correction from Contract Modification 453, which definitized REA 2018-011. An NTE was provided in Contract Modification 432, which was not taken into account when definitizing the REA in Contract Modification 453. Also, the line item allocation used in Mod 453 was incorrect for CLIN 2.1 and CLIN 2.2/2.3. The modification corrects the line item allocation and also takes into account the NTE. Net change to Total Estimated Contract Cost (TECC) to fix error from mod 453 is (\$180,938).

				CORRECT	NET
			MOD 432	MOD 453	CHANGE
CLIN		MOD 453	NTE	ALLOCATION	MOD 454
1.0	LBL	\$208,568	\$0	\$208,568	\$0
2.1	DFLAW Design	\$0	\$58,200	\$219,285	\$161,085
2.2/2.3	Procurement/	\$310,315	\$122,738	\$91,030	(\$342,023)
	Construction				·
TECC		\$518,883	\$180,938	\$518,883	(\$180,938)
	Fee	\$41,078	\$0	\$41,078	\$0
TECP		\$559,961	\$180,938	\$559,961	(\$180,938)

2. Definitize REA 2015-005, Rev. 1, DOE O 414.1D, Change 1, Quality Assurance Program, to reflect the following negotiated settlement:

		DEFINITIZED		NET
		REA 2015-005,	MOD 349	CHANGE
CLIN		Rev. 1 VALUE	NTE	
1.0	LBL	\$1,481,074	\$1,071,865	\$409,209
2.1	DFLAW Design	\$209,787	\$0	\$209,787
2.2/2.3	Procurement/ Construction	\$202,540	\$0	\$202,540
3.0	HLW Facility	\$157,163	\$750,590	(\$593,427)

4.0	PT Facility	\$130,784	\$1,020,690	(\$889,906)
TECC		\$2,181,348	\$2,843,145	(\$661,797)
FEE	Post Mod 384	\$188,315	\$0	\$188,315
TECP		\$2,369,663	\$2,843,145	(473,482)

Summary of Changes for items 1 and 2 above by CLIN:

		T4 1	I4 2	NET
CLIN		Item 1	Item 2	CHANGE
1.0	LBL	\$0	\$409,209	\$409,209
2.1	DFLAW	\$161,085	\$209,787	\$370,872
	Design			
2.2/2.3	Procurement/	(\$342,023)	\$202,540	\$139,483
	Construction		\$202,340	\$139,483
3.0	HLW	\$0	(\$593,427)	(\$593,427)
	Facility			
4.0	PT Facility	\$0	(\$889,906)	(\$889,906)
TECC		(\$180,938)	(\$661,797)	(\$842,735)
FEE	Post Mod		\$188,315	\$188,315
	384			
TECP		(\$180,938)	(\$473,482)	(\$654,420)

- 3. As a result of negotiations and definitizing REA 2015-005, Rev. 1, the table in Section B, Supplies or Services and Prices/Costs, Contract Section B.3 Obligation and Availability of Funds and Contract Value, paragraph (c) is revised as follows:
 - The Cost Category (A) Total Estimated Contract Cost (TECC) in the amount of \$14,087,649,158 is carried forward from Contract Modification 453.
 - The Cost Category (B.1) CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration, Increased by Mod No. 454, is \$409,209.
 - The Cost Category (B.1) CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration, Total CLIN Estimated Cost, is increased by \$409,209 from \$6,509,878,408 to \$6,510,287,617.
 - The Cost Category (B.2) CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW, Sub-CLIN 2.1: DFLAW Design (Target Cost), Increased by Mod No. 454, is \$370,872.
 - The Cost Category (B.2) CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW, Sub-CLIN 2.1: DFLAW Design (Target Cost), Total CLIN Estimated Cost, is increased by \$370,872 from \$75,058,200 to \$75,429,072.

- The Cost Category (B.2) CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW, Sub-CLINs 2.2/2.3 DFLAW Procurement/Construction, Decreased by Mod No. 454, is (\$139,483).
- The Cost Category (B.2) CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW, Sub-CLINs 2.2/2.3 DFLAW Procurement/Construction, Total CLIN Estimated Cost, is decreased by (\$139,483) from \$364,348,867 to \$364,209,384.
- The Cost Category (B.3) CLIN 3.0 HLW Facility, Decreased by Mod No. 454, is (\$593,427).
- The Cost Category (B.3) CLIN 3.0 HLW Facility, Total CLIN Estimated Cost, is decreased by (\$593,427) from \$2,741,698,522 to \$2,741,105,095.
- The Cost Category (B.4) CLIN 4.0: PT Facility, Decreased by Mod No. 454, is (\$889,906).
- The Cost Category (B.4) CLIN 4.0: PT Facility, Total CLIN Estimated Cost, is decreased by (\$889,906) from \$4,396,665,161 to \$4,395,775,255.
- The Revised Total Estimated Contract Cost (TECC) is decreased by (\$842,735) from \$14,087,649,158 to \$14,086,806,423.
- The Cost Category E5: REA Fee Post Mod 384, Earned Fee, is increased by \$188,315 from \$363,113 to \$551,428.
- The Total Fee Earned is increased by \$188,315 from \$337,023,952 to \$337,212,267.
- The Total Estimated Contract Price (TECP) (Total Maximum Available Fee + Total Earned Fee + TECC) is decreased by (\$654,420) from \$14,676,286,127 to \$14.675,631.707.
- 4. The table in Section B, Supplies or Services and Prices/Costs, Contract Section B.3 Obligation and Availability of Funds and Contract Value, paragraph (c), is deleted in its entirety and replaced in full as follows:

Table B.1 - Total Estimated Contract Price

		Cost			
Total E	Estimated Contract Cost (TECC) through Mod No. 453				\$14,087,649,158
Total E	Estimated Contract Cost (454)	CLIN Estimated Cost	Increased/ Decreased by Mod No. 454	Total CLIN Estimated Cost	
B.1	CLIN 1.0: Design, Construct, and Commission LBL in the DFLAW Configuration	\$6,509,878,408	\$409,209	\$6,510,287,617	

		Cost				
B.2	CLIN 2.0: WTP Facility Modifications Necessary to Support DFLAW					
	Sub-CLIN 2.1: DFLAW Design (Target Cost)	\$75,058,200	\$370,872	\$75,429,072		
	Sub-CLINs 2.2 /2.3 DFLAW Procurement/ Construction	\$364,348,867 (Previous NTE Values)	(\$139,483)	\$364,209,384		
B.3	CLIN 3.0 HLW Facility			\$2,741,105,095		
		\$2,741,698,522	(\$593,427)			
B.4	CLIN 4.0: PT Facility	\$4,396,665,161	(\$889,906)	\$4,395,775,255		
	Revised Total Estimated Contract Cost (TECC) through	gh Mod No. 454			\$14,086,806,42	
		Fee			-X	
		Available		Earned	Total	
Earne	d before Mod No. 384					
A1	Final Fee Determination – Pre-Mod No. A143			\$102,622,325		
A2	Final Fee Earned Mod No. A143 - Mod No. 384			\$131,573,553		
Fixed	Fee Payment (Attachment B-2-C)***	\$0		\$60,000,000		
	ng Activity Milestones (Attachment B-2-B)	\$0		\$6,667,000		
Maxim	num Available Award Fee (CY 2016–2022) hment B-2-D)	\$39,363,017		\$11,047,961		
CLIN DFLA	1.0: Design, Construct, and Commission LBL in the N Configuration					
E1	LBL Construction Complete Performance Based Incentives (Attachment B-2-E)	\$51,300,000		\$17,100,000		
E2	Commission LBL in the DFLAW Configuration Performance Based Incentive (Attachment B-2-F)	\$152,950,000		\$6,650,000		
E3	Schedule Incentive Hot Commissioning (Attachment B-2-F)	+/- \$60,000,000 (Max)				
E4	Cost Share Incentive (Attachment B-2-G)	+/- \$50,000,000 (Max)				
E5	REA Fee Post Mod 384 (454)		\$188,315	\$551,428		
	2.1: Performance-Based Incentive for DFLAW Design letion (Attachment B-2-H)	\$8,000,000		\$1,000,000		
	Total Maximum Available Fee****	\$251,613,017				
	Total Fee Earned (454)			\$337,212,267		
	Total Estimated Contract Price (TECP) (Total Maximum Available Fee + Total Earned Fee + TECC) (454)				\$14,675,631,70	

^{**} Estimated cost for interim work plans within the agreed funding profile for CLINs 3.0 and 4.0 is included in Total Estimated Contract Cost (TECC).

5. Section B, Table B-2-F-1, Configuration Performance Based Incentive Fee, item B) Successful Demonstration of Hot Commissioning Final Milestone PBI Description - is

^{***} Payment is in satisfaction of all fee entitlement for work accomplished under the Contract from contract Modification No. A143 through the date of this modification (384) that is not included in A2 above.

^{****} Exclusive of Cost Share and Schedule Incentives.

revised to increase the number in the third paragraph from \$3,604,545,015 by \$1,481,074 to \$3,606,026,089 as follows:

LBL Startup and Commissioning Performance Based Incentive Fee	Fee (\$)
B) Successful Demonstration of Hot Commissioning Final Milestone PBI Description: 75% of the Startup and Commissioning PBI pool will be earned upon the successful demonstration of hot commissioning by January 15, 2022. This PBI is date dependent and will have a +/- 3-month grace period.	\$119,700,000 (+ any unearned Startup and Commissioning Interim PBIs)
Schedule Incentive Fee – <u>Description:</u> For completion of the successful demonstration of LBL hot commissioning per Section J, "List of Attachments," Attachment P, "Completion Definition Sheets for Incentive Fees," after April 15, 2022, fee under this PBI will be reduced at a rate of \$10M/month for a six (6) month period or until October 15, 2022. For completion after October 15, 2022, fee under the successful demonstration of hot commissioning PBI will be reduced to a minimum fee of 30% or \$35.9M, which is subject to the cost share incentive of this PBI.	
For completion per Section J, "List of Attachments," Attachment P, "Completion Definition Sheets for Incentive Fees," earlier than October 15, 2021, the Contractor shall earn a fee incentive of \$10M/month for a six (6) month period or until April 15, 2021, subject to the maximum schedule incentive of \$60M. Any incentive earned under the successful demonstration of this PBI for early completion is conditioned on achievement of actual cost savings equal to or greater than 200% of the amount of incentive earned (i.e., if the completion date is August 15, 2021, the Contractor is entitled to a \$20M schedule incentive, provided that the total costs for CLIN 1.0 are equal to or less than \$3,606,026,089, a reduction of \$40M).	
Total LBL Startup and Commissioning Performance Based Incentive Fee not including schedule incentive	\$159,600,000
See Figure B-2-F-1 for an illustration of the mechanics of the Schedule Incentive.	

6. Section B, Attachment B-2-G, Incentive Fee G – CLIN 1.0 Cost Share Incentives is revised to increase numbers by \$1,481,074 as follows:

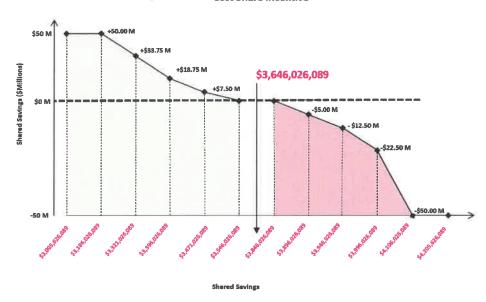
The Government and BNI will share cost increases/decreases above or below the target cost of \$3,646,026,089. The final increase/decrease to earned fee will be based on the actual final cost incurred to complete CLIN 1.0 from January 1, 2014. The increase/decrease will be cumulative and the final amount will be prorated for any final cost falling between the high and low points of any of the final cost bands reflected herein.

Cost Share Incentives	Description	Maximum	Maximum
	CLIN 1.0 Cost share incentive will include a +\$200M fee neutral cost band above the price of \$3,646,026,089 and a -\$100M fee neutral band below \$3,646,026,089.	Incremental Fee Reduction	Cumulative Fee Reduction
Decreases to earned fee will start after the total cost for CLIN 1.0 exceeds \$3,846,026,089 as follows:	Total cost for CLIN 1.0 between \$3,846,026,089 to \$3,896,026,089, the cost increase will be shared in a ratio of 90% Government and 10% BNI.	-\$5,000,000.00	-\$5,000,000.00
	Total cost for CLIN 1.0 between \$3,896,026,089 to \$3,946,026,089, the cost increase will be shared in a ratio of 85% Government and 15% BNI.	-\$7,500,000.00	-\$12,500,000.00

	Total cost for CLIN 1.0 between \$3,946,026,089 to \$3,996,026,089, the cost increase will be shared in a ratio of 80% Government and 20% BNI.	-\$10,000,000.00	-\$22,500,000.00
	Total cost for CLIN 1.0 between \$3,996,026,089 to \$4,106,026,089 the cost increase will be shared in a ratio of 75% Government and 25% BNI.	-\$27,500,000.00	-\$50,000,000.00
	Total Decrement for \$460,000,000 cost increase to price (\$4,106,026,089)	-\$50,000,000.00	
Increases to earned fee will start when costs are below \$3,546,026,089		Maximum Incremental Fee Increase	Maximum Cumulative Fee Increase
	Total cost for CLIN 1.0 equal to \$3,546,026,089 to \$3,471,026,089, the cost savings will be shared in a ratio of 90% Government and 10% BNI.	\$7,500,000.00	\$7,500,000
-	Total cost for CLIN 1.0 between \$3,471,026,089 to \$3,396,026,089, the cost savings will be shared in a ratio of 85% Government and 15% BNI.	\$11,250,000.00	\$18,750,000
	Total cost for CLIN 1.0 between \$3,396,026,089 to \$3,321,026,089, the cost savings will be shared in a ratio of 80% Government and 20% BNI.	\$15,000,000.00	\$33,750,000
	Total cost for CLIN 1.0 between \$3,321,026,089 to \$3,186,026,089, the cost savings will be shared in a ratio of 75% Government and 25% BNI.	\$16,250,000.00	\$50,000,000
	Total Incentive for cost savings	\$50,000,000.00	

7. In Section B, Figure B-2-G-1. Graph Cost Share Incentive Fee CLIN 1.0 is revised to reflect the \$1,481,074 revision to the Cost Share Incentive Curve as follows:

Cost Share Incentive



8. Section B, Supplies or Services and Prices/Costs, Table B-2-H-1, CLIN 2.1 DFLAW Design Completion Fee is revised to update the Cost Incentive Fee paragraphs to increase the CLIN 2.1 target contract cost from \$75M to \$75,429,072 as follows:

	DFLAW Design Completion Fee Milestones	Fee (\$)
DFLAW	Design Completion	
Interim Descript	Milestone Completion Incentive Fee – ion:	
1)	Complete the constructability review, model review and initial Hazard Analysis for the DFLAW Effluent Management Facility by-	
	December 31, 2015 After March 31, 2016 and before June 30, 2016 After June 30, 2016	\$500,000 \$250,000 \$0
2)	Prepare and issue the DFLAW EMF Safety Basis Change Package (SBCP)/Preliminary Documented Safety Analysis (PDSA) update as an addendum to the LAW PDSA by-	
	July 31, 2016 After October 30, 2016 and before January 31, 2017 After January 31, 2017	\$500,000 \$250,000 \$6
Descript of less th	centive Fee – ion: DOE and the Contractor will share cost under runs on completion of CLIN 2.1 han target contract cost (\$75,429,072) in the ratio of 80% DOE/20% Contractor, to the maximum combined fee limitation.	
target co	d the Contractor will share cost overruns on completion of CLIN 2.1 of more than intract cost (\$75,429,072) in the ratio of 80% DOE/20% Contractor, subject to the in fee limitation.	
Descripti Section of Incentive	le Incentive Fee — ion: For every full month DFLAW Design Completion is accepted as complete per J, "List of Attachments," Attachment Q, "DFLAW Design Completion Criteria e Definitions," prior to April 30, 2018, fee will be increased by \$100,000 subject to mum combined fee limitation.	
and July after Apr	ent DFLAW Design Completion is accepted as complete between April 30, 2018, 31, 2018, fee will be reduced by \$100,000 for each full month completion occurs il 30, 2018 per Section J, "List of Attachments," Attachment Q, "DFLAW Design ion Criteria Incentive Definitions."	
Attachm	ent DFLAW Design Completion is accepted as complete per Section J, "List of ents," Attachment Q, "DFLAW Design Completion Criteria Incentive Definitions," v 31, 2018, total fee available will be reduced to the minimum fee of \$750,000.	
	n Fee under DFLAW Design Completion ve of any Interim Milestone Completion Fee)	\$750,000
	ee under DFLAW Design Completion (exclusive of any Interim Milestone tion Fee)	\$4,500,000
Maximu ncentiv	m Fee inclusive of Cost, Schedule, and Interim Milestone Completion	\$9,000,000

9. The table in Section B, Supplies or Services and Prices/Costs, Contract Section B.12, Attachment B-2-I, REA Fee Post Mod 384, is revised to add REA 2015-005, Rev. 1 DOE O 414.1D, Change 1, Quality Assurance Program, to the table as follows:

REA Number and REA Title	Contract Mod Recognizing	Dollar Value of Fee
	Definitization	Negotiated
REA 2017-002 EMF	420	\$40,522
Differing Subsurface		
Conditions		
REA 2016-002 Probabilistic	429	\$85,627
Seismic Hazards Analysis		
(PSHA) Assessment		
REA 2016-001 Rev. 1	441	\$139,098
Direction to Evaluate IERT		
Recommendations for RLD-		1
VAL-00007 & 00008		
REA 2017-008 Rev. 0 T-1	445	\$56,788
Office Space for DOE		
REA 2018-011 Rev. 0	453	\$41,078
Transfer Line Pressure		
Discrepancy Resolution		
REA 2015-005, Rev. 1, DOE	454	\$188,315
O 414.1D, Change 1, Quality		
Assurance Program		
Total		\$ 551,428

10. Contract Section J, List of Attachments, Attachment J, Advance Understanding on Costs, Table 13-B, Not-to-Exceeds Not Included in Modification No. A143 Definitization (M155), is deleted in its entirety and replaced in full as follows:

13-B. Not-To-Exceeds Not Included in Modification No. A143 Definitization (M155)				
DOCUMENT ID.	TITLE	DEFINITIZATION MODIFICATION NO.		
BCP-24590-06- 02279	Expansion of DWP Requirements (permit modifications) (122) (130)	A193		
ORP 08-NSD-011 (05/20/08) (CCN:179512) TN 24590-06- 03487	ORP Direction to Implement New Preliminary Safety Analysis Report (PSAR) Updates (136)	A164		
ORP 08-NSD-057 (10/09/08) (CCN:188218) TN 24590-06- 03752	Direction to Implement New Safety Classification Process for the Waste Treatment and Immobilization Plant (WTP) (141)	276		
ORP 08-NSD-059 (10/15/08) (CCN 188217)	Direction to Implement New Justification for Continued Design, Procurement, and Installation (JCDPI) (M152)	164		

TN 24590-06- 03753		
Modification No. M090 & 09-AMD- 205 (07/18/08) (CCN: 202423)	Direction to Implement DOE 205.1A, Cyber Security Management Program (155)	217
TN 24590-06- 02145 & - 02381		
Modification No. M154 TN 24590-06- 04133	Direction to Implement Pretreatment Engineering Platform (PEP) dry layup (155)	167
Modification No. M196 BCP 24590-06- 04489 BCP 24590-06- 04784 BCP 24590-06- 05085	Direction to Implement Multiple Operational Readiness Strategy (218)	282
Modification No. M196 BCP 24590-06- 04853 ORP 10-AMD-139 (05/06/10; CCN: 218244)	Direction to Implement CXP Equipment Option (218)	317
Modification No. 221 ORP 11-WTP-219 (06/17/11; CCN: 236247); Modification No. 247 ORP 11-WTP-437 (12/01/11; CCN: 242351); Modification No. 264 ORP 12-WTP-0109 (03/15/12; CCN: 245985); Modification No. 286 ORP 12-WTP-317 (09/24/12)	Direction to Proceed with Large Scale Testing (221, 247, 264, 286)	299 - 384
Modification No. 273	Direction to participate in the Hanford Site Organizational Climate and Safety Conscious Work Environment (SCWE) Survey	290
Modification No. 245 ORP 11-WTP-429	Direction to proceed with the implementation of DOE Order (O) 420.1B, Facility Safety, Chapter V, Systems Engineer Program. (245)	276
Modification No. 300 ORP 13-CPM- 0099 (05/06/13); Modification No. 304 ORP 13-CPM- 0133 (06/05/13);	Direction to Proceed with Full Scale Vessel Testing Program in lieu of the existing Computational Fluid Dynamics and Large Scale Vessel testing Program as a Design Verification Tool (300, 304, 313)	384

Modification No. 313 ORP 13-CPM- 0299 (11/25/13)		
Modification No. 329 ORP 14-CPM- 0172	Direction to proceed with Section C, Statement of Work, Standard 3 Design, paragraph (i) Design of BOF Utility Modifications	350
Modification No. 330 ORP 14-CPM- 0181	Direction to proceed with Section C, Statement of Work, Standard 3 Design, paragraph (j) Design of BOF Effluent Management Facility	350
Modification No. 334 ORP 14-CPM- 0228, ORP 15- CPM-0300 (358) 16-CPM-0088 (372)	Direction to proceed with Pretreatment Facility vessel mixing design verification.	384
Modification No. 339 ORP 15-CPM- 0008	Direction to proceed with Section C, Statement of Work, Standard 3 Design, paragraph (k) Design of Balance of Facilities Underground and Site-Wide modifications necessary to support the Direct Feed of LAW (DFLAW)	350
Modification No. 342 ORP 15-CPM- 0064, ORP 16- CPM 0012 (364)	Direction to proceed with the implementation of DOE Order 433.1B, Maintenance Management Program for DOE Facilities and DOE/RL-92-36, Hoisting and Rigging Manual. (342)	384
Modification No. 344 ORP 15-CPM- 0092	Direction to proceed with initiation of procurement of BOF modifications and LAW Valve Vault materials to support DFLAW; add Interface Control Documents 30 and 31	384
Modification No. 348 ORP 15-CPM- 0128	Direction to proceed with initiation of BOF isolation construction to support DFLAW	384
Modification No. 349 ORP 15-CPM- 0136	Direction to proceed with the implementation of DOE Order 414.1D, CRD, Chg. 1, Quality Assurance. (349)	454
Modification No. 354 ORP 15-CPM- 0195, ORP 16- CPM-0154 (380)	Direction to proceed with procurement of Effluent Management Facility (EMF) equipment and effluent transfer lines and limited EMF construction (354)	384
Modification No. 371 ORP-16-CPM- 0085,ORP-16- CPM-0091	Conduct supplementary analysis of vessels RLD-VSL-00007 and RLD-VSL-00008 beyond the WTP Code of Record and modify the RLD-VSL-00007 and RLD-VSL-00008 vessel design.	441
Modification No. 375 ORP-16- CPM-0111, 17- CPM-0038, (388), ORP-17-CPM- 0185 (412)	Update the Natural Phenomena Hazards (NPH) Assessment by generating a revised site-specific response analysis and design response spectra for WTP incorporating Hanford site-wide Probabilistic Seismic Hazard Analysis (PSHA) report from PNNL, dated November 21, 2014. (375)	429

Modification No. 381 ORP-16- CPM-0155 (381)	Authorization to proceed with the development of an engineering redraft process for Standard 3: Design (c) (22).	403
Modification No. 385 ORP-16- CPM-0174,ORP- 17- CPM-0181 (411)	Authorization to proceed with the engineering redraft process developed in Standard 3, subparagraph (c) (22) to reclassify the required portions of the LAW C5 ventilation system from non-safety to safety significant as described in 24590-LAW-PL-NS-16-0005 Rev. 0, Safety Strategy Summary Document (SSSD) — Oxides of Nitrogen/Melter Offgas Releases.	426
Modification 389 17-CPM-0044 (389), 18-CPM- 0105 (428)	Authorization to proceed with engineering and nuclear safety activities necessary to implement the changes to engineered safety controls documented in the Caustic Safety Strategy Summary Document (SSSD) under Standard 3, subparagraph (c) (24)	433
Modification No. 397, ORP-17- CPM-0094; 18- CPM-0143 (438)	DOE included a deliverable to implement the CGD extent of condition review and impacts in Section C, Statement of Work, Table C.5-1.1. Deliverables, 7.11) (397)	
Modification No. 406, ORP-17- CPM- 0151 (406)	DOE Updated DOE Order 232.2A as referenced in Section C, Standard 1, (d)(5)(6) and updated Section J deliverables.(406)	
Modification No. 415, ORP-18-CPM – 0004, 18-CPM- 0105 (428)	CGD Implementation Plan for Parking Lot Items 1, 2, 7, 9, 12 and 17 in Section C, Statement of Work, Standard 7, Environment, Safety, Quality, and Health, (3) Quality Assurance, (ii), d.	443
Modification No. 432, ORP-18- CPM-0123 (432)	Authorized to perform Design and Procurement of the Actuated On/Off Valve as referenced in Section C, Statement of Work, Subsection C.7 Facility Specification, paragraph (a) (3)	453

11. Contractor's Statement of Release: In consideration of the Modification 454, agreed to herein as complete equitable adjustment for the Contractor's Request for Equitable Adjustments (REA) for 2015-005, Rev. 1, the Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustments attributable to such facts or circumstances giving rise to the changes as noted in the modification.

All other terms and conditions remain unchanged.

(End of Modification)